

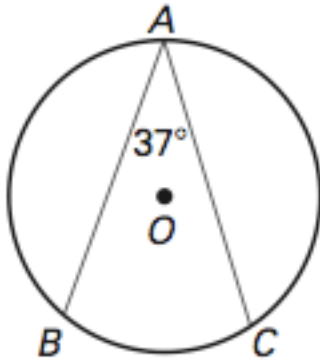
Geometry 10.3 Assignment

Other Angle Relationships in Circles (pp 613-620)

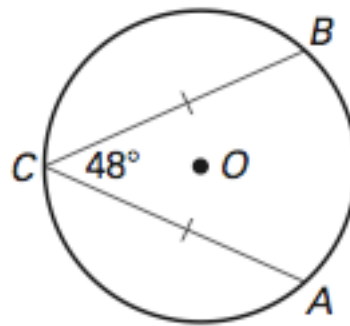
1. What is your name?

Find the measure of the indicated arc or angle in $\odot O$.

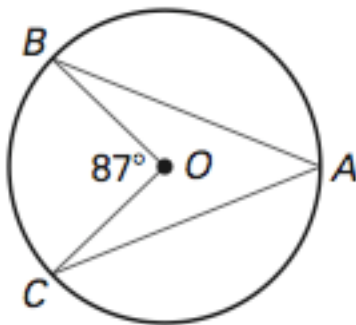
2. $m\widehat{BC}$



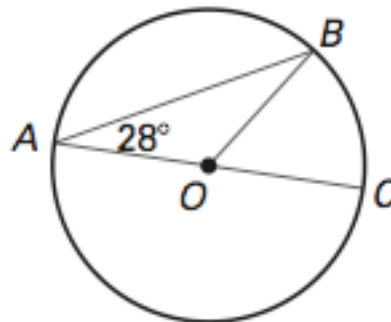
3. $m\widehat{BC}$



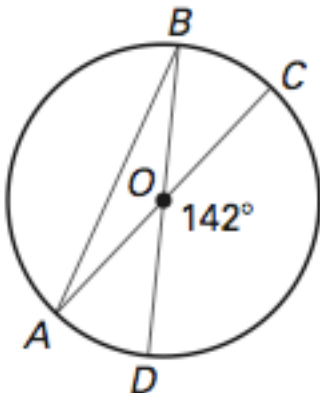
4. $m\angle BAC$



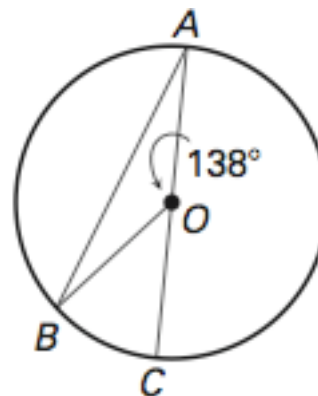
5. $m\widehat{BC}$



6. $m\angle BAC$



7. $m\angle BAC$



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Find the measure of the arc or angle in $\odot O$, given

$$m\widehat{CD} = 86^\circ \text{ \& } m\widehat{BE} = 95^\circ.$$

8. $m\angle ABC$

9. $m\angle CED$

10. $m\angle BDE$

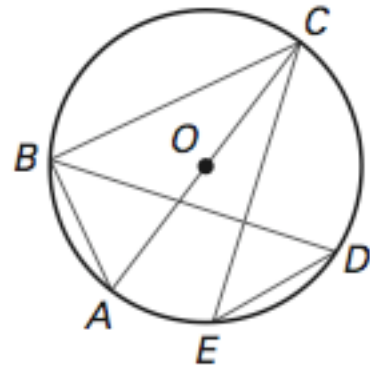
11. $m\angle CBD$

12. $m\angle ABD$

13. $m\angle BCE$

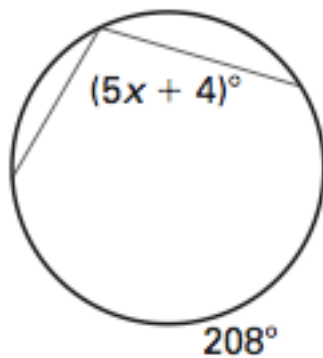
14. $m\widehat{AD}$

15. $m\widehat{ABC}$

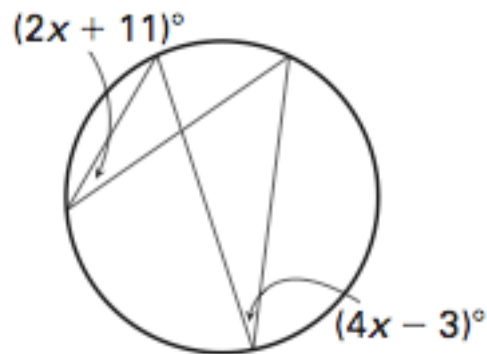


Find the value of x.

16.



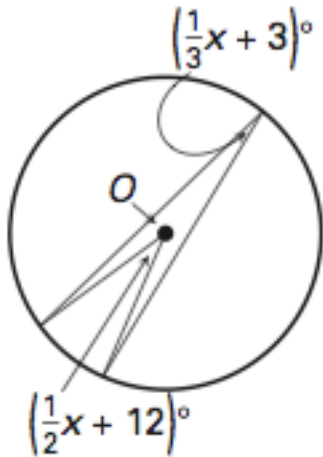
17.



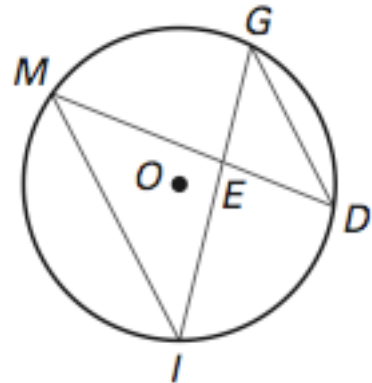
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18. Find the value of x .



19. In $\odot O$, explain why $\triangle MEI \sim \triangle GED$



20. Write the equation in slope-intercept form of the line that passes through $(-5, -12)$ with a slope of intercept $-\frac{4}{5}$.

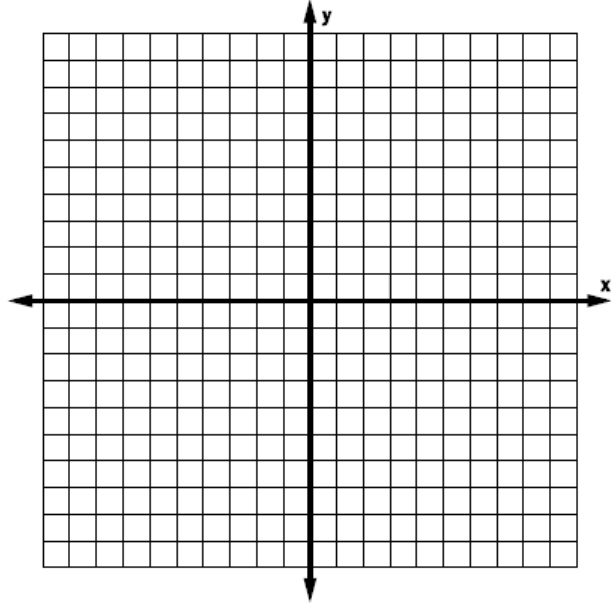
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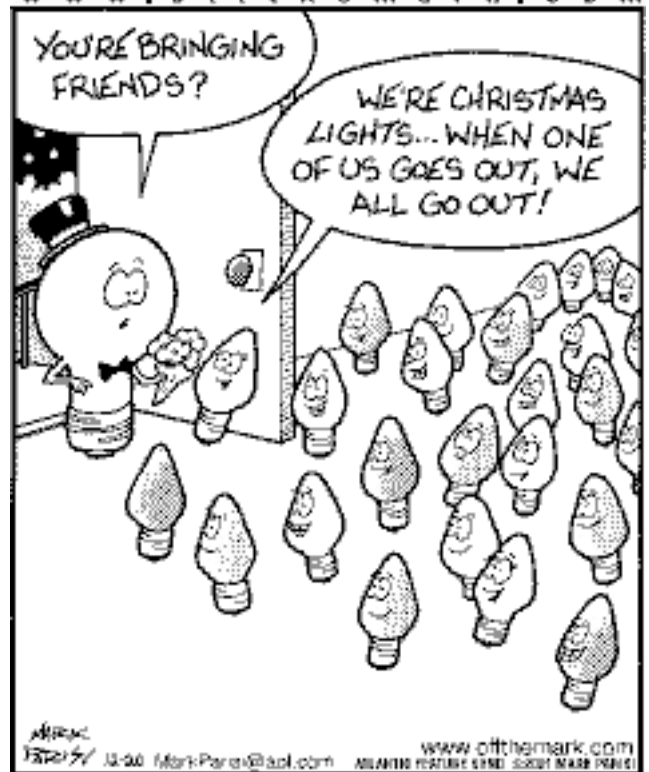
21. Sketch the image of $\triangle PQR$ after a composition of the reflection over the y-axis and then a rotation of 90° clockwise about the origin. $\triangle PQR$ has vertices $P(-5, 4)$, $Q(-2, 1)$ and $R(-1, 3)$.

22. What is the length of an altitude of an equilateral triangle whose sides have lengths $26\sqrt{2}$?

23. $\triangle ABC$ is a right triangle in which $AB = 4\sqrt{3}$, $BC = 4$, & $AC = 8$. What is $\tan C$?



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